

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently Amended) A feeder for a surface mounting device, the feeder comprising:

a main frame;

a parts feeding unit, a vinyl separation unit, and a vinyl recovery unit mounted on the main frame; and

a drive system comprising a forward and backward rotational force generating device in communication with and configured to drive each of the parts feeding unit, the vinyl separation unit, and the vinyl recovery unit.

6. (Canceled)

7. (Currently Amended) The feeder of claim [[6]] 5, wherein the forward/backward forward and backward rotational force generating device comprises a permanent magnet unit positioned adjacent a plurality of armature coils.

8. (Previously Presented) The feeder of claim 7, wherein the permanent magnet unit comprises a first disc member having a plurality of S and N polar permanent magnet arranged thereon.

9. (Previously Presented) The feeder of claim 8, wherein the plurality of armature coils are provided on a second disc member, and the second disc member is mounted on a drive shaft adjacent to the first disc member.

10. (Previously Presented) The feeder of claim 9, further comprising a ball bearing interposed between the first disc member and the drive shaft.

11. (Currently Amended) The feeder of claim [[6]] 5, wherein the forward/backward forward and backward rotational force generating device is provided on the main frame between the parts feeding unit and the vinyl separation unit.

12. (Currently Amended) The feeder of claim 5, wherein the parts feeding unit is in rotational communication with the drive system via by means of a first gear train.

13. (Currently Amended) The feeder of claim 12, wherein the parts feeding unit comprises a feeding unit driving gear in rotational communication with the drive system via by

means of the first gear train, the feeding unit driving gear having driving teeth provided on an outer circumferential surface that are configured to engage with holes provided in a tape to move a tape a predetermined distance upon rotation of the drive system by a corresponding rotational amount.

14. (Previously Presented) The feeder of claim 13, wherein the first gear train comprises a first feeding unit gear mounted on a shaft of the drive system, an intermediary gear, and a second feeding unit gear mounted on a shaft with the feeding unit drive gear.

15. (Currently Amended) The feeder of claim 12, wherein the vinyl separation unit is in rotational communication with the drive system via by means of a second gear train.

16. (Currently Amended) The feeder of claim 15, wherein the vinyl separation unit comprises a first vinyl discharge gear rotatable in a first direction, and a second vinyl discharge gear rotatable in a second direction, opposite the first direction, and wherein the first vinyl discharge gear is in rotational communication with the drive system via by means of the second gear train.

17. (Previously Presented) The feeding of claim 16, wherein the second gear train comprises a first separation gear in rotational communication with the first vinyl discharge gear and in rotational communication with a gear mounted on a shaft of the drive system.

18. (Currently Amended) The feeder of claim 15, wherein the vinyl recovery unit is in rotational communication with the drive system via by means of the second gear train and a belt.

19. (Previously Presented) The feeding of claim 18, wherein the vinyl recovery unit comprises a recovery reel and a recovery unit gear in rotational communication with the belt.

20. (Previously Presented) The feeder of claim 5, wherein the parts feeding unit, the vinyl separation unit, and the vinyl recovery unit are driven in synchronization.

21. (Previously Presented) The feeder of claim 5, further comprising a position sensing unit configured to sense a rotational position of a drive gear of the drive system.

Claims 22-24. (Canceled)

25. (New) A feeder for a surface mounting device, the feeder comprising:
a main frame;
a parts feeding unit, a vinyl separation unit, and a vinyl recovery unit mounted on
the main frame; and
a drive system configured to drive each of the parts feeding unit, the vinyl
separation unit, and the vinyl recovery unit, wherein the parts feeding unit comprises a feeding
unit driving gear in rotational communication with the drive system by means of a first gear
train, the feeding unit driving gear having driving teeth provided on an outer circumferential
surface that are configured to engage with holes provided in a tape to move a tape a
predetermined distance upon rotation of the drive system by a corresponding rotational amount.

26. (Previously Presented) The feeder of claim 25, wherein the first gear train
comprises a first feeding unit gear mounted on a shaft of the drive system, an intermediary gear,
and a second feeding unit gear mounted on a shaft with the feeding unit drive gear.

27. (New) A feeder for a surface mounting device, the feeder comprising:
a main frame;
a parts feeding unit, a vinyl separation unit, and a vinyl recovery unit mounted on
the main frame; and

a drive system configured to drive each of the parts feeding unit, the vinyl separation unit, and the vinyl recovery unit, wherein the parts feeding unit is in rotational communication with the drive system by means of a first gear train and wherein the vinyl separation unit is in rotational communication with the drive system by means of a second gear train and comprises a first vinyl discharge gear rotatable in a first direction, and a second vinyl discharge gear rotatable in a second direction, opposite the first direction, and wherein the first vinyl discharge gear is in rotational communication with the drive system by means of the second gear train.

28. (New) The feeding of claim 27, wherein the second gear train comprises a first separation gear in rotational communication with the first vinyl discharge gear and in rotational communication with a gear mounted on a shaft of the drive system.

29. (New) A feeder for a surface mounting device, the feeder comprising:
a main frame;
a parts feeding unit, a vinyl separation unit, and a vinyl recovery unit mounted on the main frame; and

a drive system configured to drive each of the parts feeding unit, the vinyl separation unit, and the vinyl recovery unit, wherein the parts feeding unit is in rotational communication with the drive system by means of a first gear train, wherein the vinyl separation

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unit is in rotational communication with the drive system by means of a second gear train, and wherein the vinyl recovery unit is in rotational communication with the drive system by means of the second gear train and a belt.

30. (New) The feeding of claim 29, wherein the vinyl recovery unit comprises a recovery reel and a recovery unit gear in rotational communication with the belt.